

Release Plan 2.3.0 (June 2019)

Release Dates

- KIP Freeze: May 11, 2019 (a KIP must be accepted by this date in order to be considered for this release)
- Feature Freeze: May 17, 2019 (major features merged & working on stabilization, minor features have PR, release branch cut; anything not in this state will be automatically moved to the next release in JIRA)
- Code Freeze: May 29, 2019
- Release: June 12, 2019 (target)

These dates are goals and subject to change, but we expect to stay on the [Time Based Release Plan](#) unless unexpected critical issues come up. While the target release date is fixed at ~2w after code freeze, RCs will roll out as needed until the release vote passes.

The release manager is [Colin McCabe](#)

Release Features

This is a list of key features/improvements/bugfixes that we can include with release notes:

- There have been several improvements to the Kafka Connect REST API.
- Kafka Connect now supports incremental cooperative rebalancing.
- Kafka Streams now supports an in-memory session store and window store.
- The AdminClient now allows users to determine what operations they are authorized to perform on topics.
- There is a new broker start time metric.
- JMXTool can now connect to secured RMI ports.
- An incremental AlterConfigs API has been added. The old AlterConfigs API has been deprecated.
- We now track partitions which are under their min ISR count.
- Consumers can now opt-out of automatic topic creation, even when it is enabled on the broker.
- Kafka components can now use external configuration stores (KIP-421)
- Improved replica fetcher behavior when errors are encountered

How to Contribute

Before code freeze:

- Participate in votes and discussions to land or postpone the open KIPs.
- Review patches. We anticipate that this release will be bottlenecked mostly on reviews. The more reviewers, the more content we can fit in.
- Write unit/integration/system tests. We want to preserve the tradition of high-quality releases in Apache Kafka.

After code freeze:

- Write more unit/integration/system tests. We want to preserve the tradition of high-quality releases in Apache Kafka.
- Improve documentation
- Test the release candidates
- Open blocker JIRAs on critical issues found. Open non-blocker JIRAs on any other issues found.
- Fix critical bugs
- Review bug fixes
- Vote on RCs. Even though only PMC votes are binding, community votes are super important as we evaluate the readiness of the release

Open Issues

key summary type created updated due assignee reporter priority status resolution



JQL and issue key arguments for this macro require at least one Jira application link to be configured

Also feel free to refer to this release [page](#) for more details of the included tickets.

Planned KIP Content

See [Kafka Improvement Proposals](#) for the full list of KIPs.

| KIP | JIRA | Component | Comment |
|-----|------|-----------|---------|
|-----|------|-----------|---------|

| | | | |
|--|---|---------------|---|
| KIP-465: Add Consolidated Connector Endpoint to Connect REST API | KAFKA-8399 | Connect | |
| KIP-462: Use local thread id for KStreams | KAFKA-8285 | Streams | |
| KIP-461: Improve Replica Fetcher behavior at handling partition failure | KAFKA-8346 | Core | |
| KIP-458: Connector Client Config Override Policy | KAFKA-8265 | Connect | |
| KIP-454: Expansion of the ConnectClusterState interface | KAFKA-8234 | Connect | |
| KIP-453: Add close() method to RocksDBConfigSetter | KAFKA-8324 | Streams | |
| KIP-449: Add connector contexts to log messages in Connect workers | KAFKA-3816 | Connect | |
| KIP-445: In-memory Session Store | KAFKA-8029 | Streams | |
| KIP-443: Return to default segment.ms and segment.index.bytes in Streams repartition topics | KAFKA-7190 | Streams | |
| KIP-442: Return to default max poll interval in Streams | KAFKA-6399 | Streams | |
| KIP-436: Add a metric indicating start time | KAFKA-7992 | Core | |
| KIP-430 - Return Authorized Operations in Describe Responses | KAFKA-7922 | Core | |
| KIP-428: Add in-memory window store | KAFKA-4730 | Streams | |
| KIP-427: Add AtMinIsr topic partition category (new metric & TopicCommand option) | KAFKA-7904 | Core | |
| KIP-425: Add some Log4J Kafka Appender Properties for Producing to Secured Brokers | KAFKA-7896 | Core | |
| KIP-421: Support resolving externalized secrets in AbstractConfig | KAFKA-7847 | Core | |
| KIP-417: Allow JmxTool to connect to a secured RMI port | KAFKA-7455 | Core | |
| KIP-415: Incremental Cooperative Rebalancing in Kafka Connect | KAFKA-5505 | Connect | |
| KIP-411: Make default Kafka Connect worker task client IDs distinct | KAFKA-5061 | Connect | |
| KIP-402: Improve fairness in SocketServer processors | KAFKA-7719 , KAFKA-7730 | Core | Partially implemented in 2.2. |
| KIP-361: Add Consumer Configuration to Disable Auto Topic Creation | KAFKA-7320 | Core | |
| KIP-351: Add --under-min-isr option to describe topics command | KAFKA-7236 | Core | |
| KIP-345: Introduce static membership protocol to reduce consumer rebalances | KAFKA-7018 , KAFKA-7610 , KAFKA-7728 , KAFKA-8224 | Core, Clients | Partially implemented in 2.3 (can already be used) |
| KIP-339: Create a new IncrementalAlterConfigs API | KAFKA-7466 | Core | Voted on a while ago, but first implemented in 2.3. |
| KIP-331 Add default implementation to close() and configure() for Serializer, Deserializer and Serde | KAFKA-6464 | Streams | |
| KIP-313: Add KStream.flatTransform and KStream.flatTransformValues | KAFKA-4247 - and KAFKA-7876 | Streams | Partially implemented since 2.2. |
| KIP-307: Allow to define custom processor names with KStreams DSL | KAFKA-6958 | Streams | Partially implemented in 2.3 (no public API improvements yet) |
| KIP-258: Allow to Store Record Timestamps in RocksDB | KAFKA-3622 and KAFKA-8382 | Streams | Partially implemented in 2.3 |
| KIP-354: Add a Maximum Log Compaction Lag | KAFKA-7321 | Core | |